CLAIM AMENDMENTS

The following listing of the claims replaces all prior versions, and listings, of the claims in the application.

1-37. (Canceled)

38. (Currently Amended) A method of forming a capacitor, comprising including:

forming a first electrode in a recess of a substrate assembly and selected from a group consisting of transition metals, conductive metal-oxides, alloys thereof, and combinations thereof, wherein the first electrode extends above an uppermost surface of a the substrate assembly;

forming a dielectric on the first electrode and the uppermost surface of the substrate assembly; and

forming a second electrode on the dielectric and the uppermost surface of the substrate assembly.

- 39. (Original) The method of claim 38, wherein forming the first electrode includes performing chemical vapor deposition.
- 40. (Original) The method of claim 38, wherein forming the first electrode includes planarization after performing chemical vapor deposition.



- 41. (Original) The method of claim 38, wherein forming the first electrode from transition metals includes forming the first electrode from a group cosisting of Pt, Rh, Ir, Ru, and Pd.
- 42. (Original) The method claim 38, wherein forming the first electrode from a conductive metal-oxide includes forming the first electrode from a group consisting of IrO_x , RuO_x and RhO_x and wherein x < 4.
- 43. (Original) The method of claim 38, wherein forming the first electrode includes forming the first electrode selected from the group consisting of Pt, Rh, Ir, Ru, Pd, IrO_x, RuO_x, RhO_x, wherein x < 4, alloys thereof, and combinations thereof.

44. (Canceled)

- 45. (Original) The method of claim 38, wherein forming the second electrode includes forming the second electrode from a group consisting of transition metals, conductive metal-oxides, aluminum, TiN, TaN, polysilicon, W, and WN.
- 46. (Original) The method of claim 38, wherein forming the second electrode includes forming the second electrode by chemical vapor deposition.
- 47. (Currently Amended) The method of claim 38, wherein forming the dielectric includes formed forming the dielectric from an insulating metal oxide.

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- 48. (Original) The method of claim 47, wherein forming the dielectric includes forming a material selected from the group consisting of barium strontium titanate, Ta_2O_5 , $SrTiO_3$, $Sr_wBi_xTa_yO_z$, and $Ba_xSr_{1-x}TiO_3$ where $0 \le x \le 1$.
- 49. (Previously Amended) The method of claim 38, further comprising forming the substrate assembly before forming the first electrode.
 - 50. (Canceled)
 - 51. (Canceled)

52.

forming a layer of hemispherical grain polysilicon in a recess of a substrate assembly; forming a first electrode on the hemispherical grain polysilicon, wherein the first electrode is selected from a group consisting of transition metals, conductive metal-oxides, alloys thereof, and combinations thereof, and wherein the first electrode extends above an uppermost surface of a the substrate assembly;

(Currently Amended) A method of forming a capacitor, comprising:

forming a dielectric on the first electrode and the uppermost surface of the substrate assembly; and

forming a second electrode on the dielectric and the uppermost surface of the substrate assembly.

- 53. (Original) The method of claim 52, further comprising planarizing after forming the first electrode.
- 54. (Original) The method of claim 52, wherein planarizing includes performing mechanical abrasion.
- 55. (Original) The method of claim 54, wherein performing mechanical abrasion includes performing chemical mechanical planarization.
- 56. (Original) The method of claim 52, further comprising removing the hemispherical grain polysilicon.
- 57. (Previously Amended) The method of claim 52, further comprising forming the substrate assembly before forming the first electrode.
 - 58. (Currently Amended) A method, comprising:

forming a substrate assembly;

forming a layer of hemispherical grain polysilicon on in a recess of the substrate assembly; forming a first electrode on the hemispherical grain polysilicon, wherein the first electrode is selected from a group consisting of transition metals, conductive metal-oxides, alloys thereof, and combinations thereof, and wherein the first electrode extends above an uppermost surface of the

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substrate assembly;

removing a portion of the substrate assembly;

removing the hemispherical grain polysilicon;

forming a dielectric on the first electrode and the uppermost surface of the substrate assembly; and

forming a second electrode on the dielectric and the uppermost surface of the substrate assembly.

- 59. (Original) The method of claim 58, further comprising forming an interconnect recessed in the substrate assembly, and wherein forming the first electrode includes forming the first electrode in the interconnect recessed in the substrate assembly.
- 60. (Original) The method of claim 58, further comprising forming a contact in the substrate assembly, and wherein forming the first electrode includes forming the first electrode in the contact.

61-80. (Canceled)

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